

化学科講演会のお知らせ

講演題目： Searching for Selective Catalytic Reactions in Complex Molecular Scaffolds

講師： Professor Scott J. Miller (Yale University, CT, USA)

日時： 6月24日 (月)

午後3時30分より

場所： 南7号館7階セミナー室

Lecture summary: This lecture will describe recent developments in our efforts to develop low-molecular weight catalysts for asymmetric reactions. Over time, our view of asymmetry has ebbed and flowed, with foci on enantioselectivity, site-selectivity and chemoselectivity. In most of our current work, we are studying issues of enantioselectivity as a prelude to extrapolation of catalysis concepts to more complex stereochemical settings where multiple issues are presented in a singular substrate. Some of the most dramatic illustrations will include “late stage functionalizations” of complex natural products. Moreover, we continuously examine an interplay between screening of catalyst libraries and more hypothesis-driven experiments that emerge from screening results. Some of the mechanistic paradigms, and their associated ambiguities, will figure strongly in the lecture. Because most of our catalysts are peptide-based, analogies to enzymatic catalysts will also be presented.

問い合わせは秋山まで